

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A-The method for reservation-recording a broadcasting program of claim 34, comprising the steps of:

downloading broadcasting program information and before storing the broadcasting program information in a-PDA the mobile terminal;

converting the stored broadcasting program information into data information to be displayed on a screen of the PDA mobile terminal and then outputting the data information to the screen;

providing for searching of the broadcasting program information displayed on the screen; and

performing a-the reservation-recording by selecting a receiving a user's input via the reservation-recording key of the PDA mobile terminal based on the searched broadcasting program information.

2. (Currently Amended) The method of claim 1, wherein the step for performing a the reservation-recording includes the steps of:

transmitting the reservation-recording information to an event timer of athe recording apparatus in response to the input of the reservation-recording key; and

storing the transmitted reservation-recording information ~~to~~in the event timer of the recording apparatus, operating the event timer ~~on~~at a preset reservation time based on the reservation-recording information, thereby turning on a power of the recording apparatus, and performing a the reservation-recording.

3. (Currently Amended) The method of claim 1, wherein in ~~the step for~~ performing athe reservation-recording, the broadcasting program information selected by a user among the displayed broadcasting program information is wirelessly transmitted to the recording apparatus.

4. (Currently Amended) The method of claim 1, wherein in ~~the step for~~ downloading the broadcasting program information and storing the broadcasting program information is downloaded through a broadcasting program data service provider's ~~internet~~ Internet homepage.

5. (Currently Amended) The method of claim 1, wherein in ~~the step for~~ downloading the broadcasting program information and storing, the broadcasting program information is directly downloaded from a broadcasting receiver where broadcasting program information is stored.

6. (Currently Amended) The method of claim 1, wherein in the step for outputting the broadcasting program data information on to the screen, icons are generated on the basis of the stored broadcasting program information thus to be and displayed on the screen.

7. (Currently Amended) The method of claim 6, wherein if one of the displayed icon icons is selected, broadcasting channel information, broadcasting time information, and broadcasting program information according to each channel and time are displayed as in a list form.

8. (Currently Amended) The method of claim 7, wherein in the step for performing a—the reservation-recording, when the—a user selects an arbitrary broadcasting program, broadcasting channel information and broadcasting time information corresponding to a title of the selected broadcasting program title are displayed with an enlargement enlarged, and a guide message inquiring whether the information is to be set as the reservation-recording information is displayed.

9. (Currently Amended) The method of claim 1, wherein in the step for providing for searching of the broadcasting program information, if an electric program guide (EPG) is provided as the broadcasting program information, a channel is set by inputting an up/down key of the PDA—mobile terminal when the channel inside the EPG is highlighted.

10. (Currently Amended) The method of claim 9, wherein in the step for providing for searching of the broadcasting program information, a software channel management for the broadcasting program information is provided at to the PDA thus mobile terminal to compare a channel set by a user with channel information of the program guide and to perform a channel search among substantial active channels.

11. (Currently Amended) The method of claim 1, wherein the PDA mobile terminal downloads broadcasting program information through a broadcasting receiver for receiving that receives broadcasting program information thus to store, stores the broadcast program information in a memory, and perform performs a search and a the reservation-recording of the broadcasting program information.

12. (Currently Amended) The method of claim 1, wherein the PDA mobile terminal accesses to a wireless internet Internet network through a mobile communication module, thus to download a broadcasting program from a broadcasting program service provider's internet Internet homepage and store the program in a memory, and then performs a search and a the reservation-recording of the program.

13. (Currently Amended) A broadcasting program reservation recording The method using a PDA of claim 35, further comprising the steps of

searching broadcasting program information using a PDA;
a user's selecting his desired broadcasting program among the searched broadcasting programs, and transmitting reservation-recording information corresponding to the broadcasting program as a transmission packet (ex, CDMA packet) form;
transmitting the packetted reservation-recording information to a subscriber's server through a wireless internet Internet network;
transmitting the reservation-recording information to the subscriber's IP address based on the transmission packet of the reservation-recording information which has been transmitted to the subscriber's server; and
performing a reservation-recording in a recording apparatus by receiving the reservation-recording information.

14. (Currently Amended) The method of claim 13, wherein the step for performing ~~a~~ the reservation-recording includes a step for turning on a power of the recording apparatus through a wakeup LAN.

15. (Currently Amended) The method of claim 13, wherein in the step for performing ~~a~~ the reservation-recording, the reservation-recording information is stored by an event timer including a non-volatile memory, a power of the recording apparatus is turned on at

a preset reservation time of the broadcasting program on the basis of the reservation-recording information, and a reservation-record is performed.

16. (Currently Amended) The method of claim 13, wherein the transmission packet includes a packet header ~~for informing that informs of~~ a data content, a subscriber's code ~~for informing that informs of~~ subscriber's information, ~~the~~ reservation-recording information, and ~~a~~ ~~the~~ subscriber's IP information.

17. (Currently Amended) The method of claim 16, wherein the reservation-recording information includes channel information ~~for performing a~~~~that performs the~~ reservation-recording, time information regarding reservation start time and reservation finish time, and category information including a program list.

18. (Currently Amended) The method of claim 13, wherein the transmission packet includes a packet header ~~for informing that informs of~~ a data content, ~~a~~~~the~~ subscriber's ~~mobile terminal PDA~~ information, ~~the~~ reservation-recording information, ~~and~~ modem information when the recording apparatus is connected to the ~~internet~~~~Internet~~ by a telephone wire.

19. (Currently Amended) A broadcasting program reservation-recording system using a ~~PDA~~~~mobile terminal~~, the system comprising:

a CDMA module provided with a mobile communication module ~~for receiving that receives~~ broadcasting program information;

a remote communication controller ~~for exchanging that exchanges~~ data with an external device ~~a recording apparatus or performing performs~~ a wireless communication in order to control the external device ~~recording apparatus~~;

a storage unit for storing device ~~that stores~~ broadcasting program information received through the CDMA module and control data for each kind of external device ~~the recording apparatus~~ received by the remote communication controller;

a controller ~~for converting that converts~~ the broadcasting program information stored in the storage unit ~~device~~ into data information of a suitable form to be displayed and thereby ~~outputting output~~; and

a display unit for displaying device ~~that displays~~ data information regarding the broadcasting program information ~~outputted output~~ from the controller on a screen, ~~wherein the system is configured to transmit a reservation-recording information from the mobile terminal to the recording apparatus based on a reservation-recording key of the mobile terminal to perform power management of the recording apparatus and a reservation-recording in the recording apparatus based on the reservation-recording information.~~

20. (Currently Amended) The system of claim 19, further comprising a key input ~~unit~~ for selecting device that receives a user's selection of the data information displayed on the screen.

21. (Currently Amended) The system of claim 19, wherein the controller includes comprises:

a CPU ~~for generating that generates~~ icons for searching or controlling the broadcasting program information based on the data stored in the storage ~~unit device~~ and thereby ~~outputting outputs the generated icons~~ on the screen of the PDA ~~mobile terminal~~; and

a companion chip ~~for controlling that controls~~ an operation of the remote communication controller through an interface with the CPU.

22. (Currently Amended) The system of claim 19, wherein the controller sets an arbitrary broadcasting program selected by a user among the broadcasting program information displayed on the display ~~unit device~~ in a ~~the~~ recording apparatus as ~~the~~ reservation-recording information.

23. (Currently Amended) The system of claim 21, wherein the remote communication controller includescomprises:

a remote control module ~~for outputting that outputs~~ a remote control signal in response to a remote control command for the ~~external device recording apparatus~~ provided from the companion chip connected to the CPU; and

a transmitter/receiver ~~for performing that performs~~ a wireless data communication link with the ~~external devices recording apparatus~~ by receiving the remote control signal from the remote control module.

24. (Currently Amended) The system of claim 23, wherein the transmitter/receiver ~~includes comprises:~~

an infrared transmitter and an infrared receiver (IR transmitter/receiver) for ~~providing that provides~~ an infrared wireless data communication link; and

a radio frequency data communication link (RF transmitter/receiver) for ~~providing that provides~~ a high frequency wireless data communication link.

25. (Currently Amended) The system of claim 19, wherein the display unit ~~for controlling video/audio data regarding the broadcasting program information and thereby outputting as screen information and audio information on the screen includes device comprises:~~

a video controller;

an audio codec;

a liquid crystal display (LCD) screen;
a speaker; and
a microphone.

26. (Currently Amended) A broadcasting program reservation-recording system using a PDA mobile terminal, the system comprising:

a service center ~~for providing that provides~~ broadcasting program information;
~~a PDA mobile terminal for that allows for searching of~~ a broadcasting program by downloading broadcasting program information from the service center and ~~thereby outputting that transmits a~~ reservation-recording information ~~of the broadcasting program from the mobile terminal to a recording apparatus based on a reservation-recording key of the mobile terminal to perform power management of the recording apparatus and a reservation-recording in the recording apparatus based on the reservation-recording information;~~ and
~~a the recording apparatus for reservation-recording that reservation-records the broadcasting program provided from the service center based on the outputted output reservation-recording information of received from the PDA mobile terminal.~~

27. (Currently Amended) The system of claim 26, further comprising a mobile communication station ~~for providing that provides~~ a wireless communication means ~~device~~ between the service center and the PDA mobile terminal.

28. (Currently Amended) The system of claim 26, wherein the service center includes information of the PDA-mobile terminal and internet-Internet access information of the recording apparatus.

29. (Currently Amended) The system of claim 28, wherein the internet-Internet access information includes IP address information of the recording apparatus when the recording apparatus is connected to the internet-Internet by an Ethernet, and includes telephone number information when the recording apparatus is connected to the internet by a telephone wire.

30. (Currently Amended) The system of claim 29, wherein the recording apparatus is provided with a wakeup LAN module ~~thus to turn on the recording apparatus at the time of a~~ ~~an external data communication request from outside.~~

31. (Currently Amended) The system of claim 30, wherein the wakeup LAN module includescomprises:

a system bios unit-device including control information ~~for controlling that~~ ~~controls~~ a power of the recording apparatus;

a physical layer unit for performing device that performs an interface with the system bios unit device in response to the external data communication request from outside; and

a backup battery for providing that provides a power to the physical layer unit device and the system bios unit device.

32. (Currently Amended) The system of claim 31, further comprising a power control unit for turning controller that turns on/off a power of the recording apparatus based on the power control information of the system bios unit device.

33. (Currently Amended) The system of claim 31, wherein the system bios unit device includes a power management logic unit device that stands by with an operation-enable state by receiving a minimum power from the backup battery.

34. (New) A method for reservation-recording a broadcasting program, the method comprising:

storing broadcasting program information in a mobile terminal; and

transmitting a reservation-recording information from the mobile terminal to a recording apparatus based on a reservation-recording key of the mobile terminal to perform power management of the recording apparatus and a reservation-recording in the recording

apparatus based on the reservation-recording information.

35. (New) A method for reservation-recording a broadcast program using a mobile terminal, the method comprising:

searching broadcasting program information in a mobile terminal; and
transmitting a reservation-recording information with a subscriber's IP address in a transmission packet form to perform power management of the recording apparatus and a reservation-recording in the recording apparatus based on the reservation-recording information.

36. (New) A recording apparatus, comprising:

a receiver configured to receive a reservation-recording information input via a reservation-recording key of a mobile terminal; and
an event timer configured to store the reservation-recording information and perform reservation-recording at a preset reservation time based on the reservation-recording information.

37. (New) The recording apparatus of claim 36, wherein the event timer turns on power of the recording apparatus at the preset reservation time based on the reservation-recording information.

38. (New) The recording apparatus of claim 36, wherein the event timer comprises a non-volatile memory.

39. (New) The recording apparatus of claim 36, wherein the event timer receives power via a back-up battery.

40. (New) A recording apparatus, comprising:
a receiver configured to receive reservation-recording information input via a reservation-recording key of a mobile terminal; and
a LAN wakeup module configured to turn on the recording apparatus upon receipt of the reservation-recording information.

41. (New) The recording apparatus of claim 40, wherein the wakeup LAN module comprises:

a system bios device including control information that controls a power of the recording apparatus;
a physical layer device that performs an interface with the system bios device in response to the receipt of the reservation-recording information; and
a backup battery that provides a power to the physical layer device and the system bios device.

42. (New) The recording apparatus of claim 41, further comprising a power controller that turns on/off a power of the recording apparatus based on the power control information of the system bios device.

43. (New) The recording apparatus of claim 41, wherein the system bios device includes a power management logic device that stands by with an operation-enable state by receiving a minimum power from the backup battery.